

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 29   | PDF and portions and links and "viewer application"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/22 17:11 |
| L2    | 18   | PDF and portions and links and "viewer application" and first and second and third                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/22 17:11 |
| L3    | 74   | PDF and "viewer application"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/22 17:11 |
| L4    | 20   | PDF and "viewer application" and "prior art"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/22 17:11 |
| L5    | 9    | PDF and "viewer application" and "prior art" and patent  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/22 17:11 |
| L6    | 39   | PDF and "viewer application" and patent  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/22 17:11 |
| L7    | 29   | PDF and "viewer application" and patent and links  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/22 17:11 |
| L8    | 7    | document and "viewer application" and "first portion" and "second portion" and "third portion" and links | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/22 17:11 |

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| L9  | 19  | "6185684"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L10 | 2   | "6185684".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L11 | 3   | "6401118".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L12 | 265 | "viewer application" and links   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L13 | 210 | "viewer application" and links and<br>@ad<"20040126"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L14 | 201 | "viewer application" and links and<br>@ad<"20040126" and (portion or<br>section or part)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L15 | 139 | "viewer application" and links and<br>@ad<"20040126" and (portion or<br>section or part) and document  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L16 | 3   | "viewer application" and links and<br>@ad<"20040126" and (portion or<br>section or part) and document and<br>"first portion" and "second portion"<br>and "third portion" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |

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| L17 | 0    | PDF and "viewer application" and claim and description and patent and document                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L18 | 39   | PDF and "viewer application" and patent and document   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L19 | 3952 | PDF and (section or portion) and link  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L20 | 2925 | PDF and (section or portion) and link and @ad<"20040126"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L21 | 1574 | PDF and (section or portion) and link and @ad<"20040126" and patent                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L22 | 2117 | PDF and (section or portion) and link and @ad<"20040126" and first and second and third            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L23 | 1193 | PDF and (section or portion) and link and @ad<"20040126" and first and second and third and patent | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L24 | 439  | PDF and (section or portion) and link and @ad<"20040126" and first and second and third and viewer | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |

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| L25 | 29 | PDF and (section or portion) and link and @ad<"20040126" and first and second and third and "viewer application" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L26 | 74 | PDF and "viewer application"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L27 | 57 | PDF and "viewer application" and @ad<"20040126"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L28 | 41 | PDF and "viewer application" and patent  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/22 17:11 |
| L29 | 1  | "4843468".PN.  | USPAT;<br>USOCR   | OR | OFF | 2006/02/22 17:11 |
| L30 | 76 | PDF and "viewer application" and document  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/22 17:11 |
| L31 | 39 | PDF and "viewer application" and patent  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L32 | 59 | PDF and "viewer application" and document and @ad<"20040126"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/22 17:11 |
| L33 | 57 | PDF and "viewer application" and document and @ad<"20040126" and (portion or section or part)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/22 17:11 |

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| L34 | 21    | PDF and "viewer application" and document and @ad<"20040126" and (portion or section or part) and internal and external          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/22 17:11 |
| L35 | 21    | PDF and "viewer application" and document and @ad<"20040126" and (portion or section or part) and internal and external and link | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/22 17:11 |
| L36 | 22355 | document and @ad<"20040126" and (portion or section or part) and internal and external and link                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/22 17:11 |
| L37 | 387   | document and @ad<"20040126" and (portion or section or part) and internal and external and link and pdf and viewer               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/22 17:11 |
| L38 | 5     | document and @ad<"20040126" and (portion or section or part) and "internal link" and "external link" and pdf and viewer          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/22 17:11 |
| L39 | 21    | document and @ad<"20040126" and (portion or section or part) and "internal link" and "external link" and viewer                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/22 17:11 |
| L40 | 84    | document and @ad<"20040126" and (portion or section or part) and "internal link" and "external link"                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/22 17:11 |
| L41 | 2     | "20020161603"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/22 17:11 |

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| L42 | 8    | document and @ad<"20040126"<br>and (portion or section or part) and<br>"internal link" and "external link"<br>and pdf | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/22 17:11 |
| L43 | 2    | "6567799".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L44 | 2    | "20020161603"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L45 | 668  | OCR and PDF   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L46 | 4979 | 707/2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L47 | 1050 | 715/501.1   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L48 | 1960 | 715/513   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L49 | 13   | OCR and PDF and searchable and<br>annotation  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |

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| L50 | 15 | "user annotation" and PDF | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |
| L51 | 4  | "patent claim" and tree   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/22 17:11 |


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### 1 [Projectors: advanced graphics and vision techniques](#)



Ramesh Raskar

 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(6.53 MB)

 Additional Information: [full citation](#)

### 2 [Link services or link agents?](#)



L. A. Carr, W. Hall, S. Hitchcock

 May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Publisher: ACM Press

Full text available: pdf(1.59 MB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 3 [GPGPU: general purpose computation on graphics hardware](#)



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB)

 Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

### 4 [Structure and transformation of documents: Mapping and displaying structural transformations between XML and PDF](#)



Matthew R. B. Hardy, David F. Brailsford

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering****Publisher:** ACM PressFull text available:  [pdf\(439.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Documents are often marked up in XML-based tagsets to delineate major structural components such as headings, paragraphs, figure captions and so on, without much regard to their eventual displayed appearance. And yet these same abstract documents, after many transformations and 'typesetting' processes, often emerge in the popular format of Adobe PDF, either for dissemination or archiving. Until recently PDF has been a totally display-based document representation, relying on the underlying PostSc ...

**Keywords:** PDF, XML, document structure transformation5 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04****Publisher:** ACM PressFull text available:  [pdf\(13.99 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include: • Rudimentary: minimal data sharing between the GIS and Vis systems • Operational: consistency of geospatial data • Functional: transparent communication between the GIS and Vis systems • Merged: one comprehensive toolkit environmentW ...

6 Computing curricula 2001September 2001 **Journal on Educational Resources in Computing (JERIC)****Publisher:** ACM PressFull text available:  [pdf\(613.63 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)  
 [html\(2.78 KB\)](#)7 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost


August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04****Publisher:** ACM PressFull text available:  [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

8 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04****Publisher:** ACM Press

Full text available:  pdf(20.64 MB) Additional Information: [full citation](#)

9 Distributed teams: Meeting central: making distributed meetings more effective

 Nicole Yankelovich, William Walker, Patricia Roberts, Mike Wessler, Jonathan Kaplan, Joe Provino

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

**Publisher:** ACM Press

Full text available:  pdf(706.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Meeting Central prototype is a suite of collaboration tools designed to support distributed meetings. The tools' minimalist design provides only those features that have the most impact on distributed meeting effectiveness. The collaboration suite is built on top of a distributed, extensible, and scalable framework.


**Keywords:** VoIP, audio conferencing, collaboration framework, distributed meetings, distributed system, group communications

10 Live documents with contextual, data-driven information components

 Anke Weber, Holger M. Kienle, Hausi A. Müller

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**


**Publisher:** ACM Press

Full text available:  pdf(627.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce the notion of a live document and we describe our concept of live documents with contextual, data driven information components. The dynamic and interactive features of live documents provide a consistent data source for multimedia presentations targeted to various audiences and multiple platforms. Therefore, they contribute to the solution of key challenges in single sourcing and repurposing. We motivate the use of live documents with sample scenarios from the field of systems docu ...

**Keywords:** Microsoft Office, live documents, repurposing, reverse engineering, scalable vector graphics, single sourcing, software engineering, systems documentation

11 m-links: An infrastructure for very small internet devices

 Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

**Publisher:** ACM Press

Full text available:  pdf(680.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability and other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...

**Keywords:** middleware, proxy, web phones, wireless, wireless web

## 12 The elements of nature: interactive and realistic techniques



Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf  
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(17.65 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

## 13 Document formatting: Creating reusable well-structured PDF as a sequence of component object graphic (COG) elements



Steven R. Bagley, David F. Brailsford, Matthew R. B. Hardy  
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

**Publisher:** ACM Press

Full text available: [pdf\(458.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Portable Document Format (PDF) is a page-oriented, graphically rich format based on PostScript semantics and it is also the format interpreted by the Adobe Acrobat viewers. Although each of the pages in a PDF document is an independent graphic object this property does not necessarily extend to the components (headings, diagrams, paragraphs etc.) within a page. This, in turn, makes the manipulation and extraction of graphic objects on a PDF page into a very difficult and uncertain process. The wo ...

**Keywords:** PDF, form Xobjects, graphic objects, tagged PDF

## 14 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp  
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(316.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

**Keywords:** applications., definitions, foundations, taxonomy

## 15 P1: "Yes, but does it scale?": practical considerations for database-driven information systems



John Russell

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

**Publisher:** ACM Press

Full text available:  pdf(231.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper explores the process of designing and implementing a database-driven system of online documentation, and putting it live on the web for customers to use. Using real-life examples, it discusses practical considerations for balancing performance, scalability, and reliability.

**Keywords:** Oracle, automation, categorization, database, performance, reliability, scalability, web services

16 Using high-speed WANs and network data caches to enable remote and distributed visualization

Wes Bethel, Brian Tierney, Jason lee, Dan Gunter, Stephen Lau

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

**Publisher:** IEEE Computer Society

Full text available:  pdf(302.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

Visapult is a prototype application and framework for remote visualization of large scientific datasets. We approach the technical challenges of tera-scale visualization with a unique architecture which employs high speed WANs and network data caches for data staging and transmission. This architecture allows for the use of available cache and compute resources at arbitrary locations on the network. High data throughput rates and network utilization are achieved by parallelizing I/O at each ...

17 Document authoring, markup and manipulation 2: Enhancing composite digital documents using XML-based standoff markup

Peter L. Thomas, David F. Brailsford

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

**Publisher:** ACM Press

Full text available:  pdf(695.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document representations can rapidly become unwieldy if they try to encapsulate all possible document properties, ranging from abstract structure to detailed rendering and layout. We present a composite document approach wherein an XML-based document representation is linked via a 'shadow tree' of bi-directional pointers to a PDF representation of the same document. Using a two-window viewer any material selected in the PDF can be related back to the corresponding material in the XML, and vice ve ...

**Keywords:** MathML, MusicXML, PDF, XBL, XML, composite documents, standoff markup

18 Distributed teams: Capturing and supporting contexts for scientific data sharing via the biological sciences collaboratory

George Chin, Carina S. Lansing

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

**Publisher:** ACM Press

Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scientific collaboration is largely focused on the sharing and joint analysis of scientific data and results. Today, a movement is afoot within the scientific computing community to shift "collaboratory" development from traditional tool-centric approaches to more data-centric ones. Yet, to effectively support data sharing means more than providing a common repository for storing and retrieving shared data sets. In order to reasonably comprehend and apply another researcher's data set, the sc ...

**Keywords:** collaboratory, data provenance, data sharing, data sharing contexts, data-centric collaboration, metadata, scientific workflow, tool-centric collaboration

19 Migration: The design and implementation of Zap: a system for migrating computing environments



Steven Osman, Dinesh Subhraveti, Gong Su, Jason Nieh

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue S1

**Publisher:** ACM Press

Full text available: pdf(2.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

We have created Zap, a novel system for transparent migration of legacy and networked applications. Zap provides a thin virtualization layer on top of the operating system that introduces pods, which are groups of processes that are provided a consistent, virtualized view of the system. This decouples processes in pods from dependencies to the host operating system and other processes on the system. By integrating Zap virtualization with a checkpoint-restart mechanism, Zap can migrate a pod of p ...

20 Using the WWW as the delivery mechanism for interactive, visualization-based instructional modules: report of the ITiCSE '97 working group on visualization



Thomas Naps, Joseph Bergin, Ricardo Jiménez-Peris, Myles F. McNally, Marta Patiño-Martínez, Viera K. Proulx, Jorma Tarhio

October 1997 **ACM SIGCUE Outlook**, Volume 25 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Visualization has long been an important pedagogical tool in CS education. The widespread use of the Web and the introduction of Java, with its ability to present interactive animated applets and other types of animation, all provide opportunities to expand the availability of visualization-based teaching and learning tools. In addition, the Web introduces new opportunities not available in traditional settings. We start by identifying the types of learning objectives that can be supported by vis ...

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